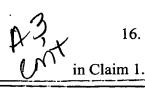
4. (Amended) The method for producing a liquid crystal optical element according to Claim 1, wherein each of A and A which are independent of each other, is an acryloyl group or a methacryloyl group.

5. (Amended) The method for producing a liquid crystal optical element according to Claim 1, wherein each of n and m which are independent of each other, is from 1 to 4.

- 8. (Amended) The method for producing a liquid crystal optical element according to Claim 6, wherein the two types of curable compounds have curable sites connectable to each other.
- 9. (Amended) The method for producing a liquid crystal optical element according to Claim 6, which contains a curable compound having a molecular weight of at least 1,000.
- 10. (Amended) The method for producing a liquid erystal optical element according to Claim 1, wherein the mixture contains a chiral agent.
- 11. (Amended) The method for producing a-liquid crystal optical element according to Claim 1, wherein the mixture contains a chiral agent, and the helical pitch of the chiral agent is at least \$\int\$ \mu and at most three times of the electrode gap.
- 13. (Amended) The method for producing Aiquid crystal optical element according to Claim 11, wherein the helical pitch is at least 5 µm and at most two times of the electrode gap.
- 14. (Amended) The method for producing a liquid crystal optical element according to Claim 1, wherein the mixture contains a very small amount of a curing catalyst.
- 15. (Amended) The method for producing a liquid crystal optical element according to Claim 1, wherein a plurality of compounds of the formula (1) wherein n and m are different, are used in combination.



16. (Amended) A liquid crystal optical element produced by the method as defined

17. (New) The method for producing a liquid crystal optical element according to Claim 6, wherein the mixture contains a chiral agent.

- 18. (Amended) The method for producing a liquid crystal optical element according to Claim 6, wherein the mixture contains a chiral agent, and the helical pitch of the chiral agent is at least 4 μ m and at most three times of the electrode gap.
- 19. (New) The method for producing a liquid crystal optical element according to Claim 18, wherein the electrode gap is from 4 to 50 μm .
- 20. (New) The method for producing a liquid crystal optical element according to Claim 18, wherein the helical pitch is at least 5 μm and at most two times of the electrode gap.
- 21. (New) The method for producing a liquid crystal optical element according to Claim 18, wherein the mixture contains a very small amount of a curing catalyst.
- 22. (New) The method for producing a liquid crystal optical element according to Claim 18, wherein a plurality of compounds of the formula (1) wherein n and m are different, are used in combination.
- 23. (New) A liquid crystal optical element produced by the method as defined in Claim 18.